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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,634	04/29/2005	Bruce Ivins	4239-67021-06	5041
	7590 10/09/200 SPARKMAN, LLP	7	EXAMINER	
121 S.W. SAL			LE, EMILY M	
SUITE #1600 PORTLAND, (OR 97204-2988		ART UNIT	PAPER NUMBER
•		•	1648	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
A.20	10/533,634	IVINS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Emily Le	1648	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	rith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLAY WHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133)	
Status	. •	•	
1) ☐ Responsive to communication(s) filed on 29.2 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. rance except for formal materials		
Disposition of Claims			
4) ⊠ Claim(s) <u>1-15,18,19 and 37-59</u> is/are pending 4a) Of the above claim(s) is/are withdress s/are allowed. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-15, 18-19 and 37-59</u> are subject to	rawn from consideration.	n requirement.	
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examination is objected.	ccepted or b) objected to be drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
	٠.		
Attachment(s)) Notice of References Cited (PTO-892)) Notice of Draftsperson's Patent Drawing Review (PTO-948)) Information Disclosure Statement(s) (PTO/SB/08)	Paper Not	Summary (PTO-413) (s)/Mail Date Informal Patent Application	

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DETAILED ACTION

Status of Claims

1. Claims 16-17 and 20-36 are cancelled. Claims 1-15, 18-19 and 37-59 are pending.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-15, 18-19 and 50, drawn to a method of treating an infection in a subject with the administration an immunostimulatory oligonucleotide, wherein the infection is Bacillus anthracis (anthrax), Yersinia Pestis, Variola major (smallpox), Histoplasma capsulatum, Haeomophilus influenzae, Escherichia coli, Shigella flexneri, S. dysenteriae (Shigella bacillus), Salmonella, Staphylococcus enterotoxin B, Ebola virus, tickborne encephalitits virus, botulinum toxin, ricin toxin, cobra venom, shellfish toxin, botulinum toxin, saxitoxin, tricothecene mycotoxin or aflatoxin; classified in class 424, subclass 184.1.
 - II. Claims 37-49 and 51-59, drawn to a method of enhancing the immunogenicity of a vaccine with the administration an immunostimulatory oligonucleotide, wherein the vaccine is Bacillus anthracis (anthrax), Yersinia Pestis, Variola major (smallpox), Ebola virus, tick-borne encephalitits virus, Histoplasma capsulatum, Haeomophilus influenzae, Escherichia coli, Shigella flexneri, S. dysenteriae (Shigella bacillus), Salmonella or Staphylococcus; classified in class 424, subclass 278.1.

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The inventions are distinct, each from the other because of the following reasons:

3. Inventions listed as Groups I-II are directed to related processes. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed, have different functions and effects. The function and effect of Group I is to administer the oligonucleotide to treat or prevent an infection, whereas, the function and effects of Group II is directed at enhancing the immunogenicity of a vaccine, an adjuvanting effect. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

Applicant is reminded that Applicant must further elect the type of infection or vaccine encompassed by elected group. In the instant case, the listed infection types and vaccines render the method encompassed by the listed groups further distinct from one another. These listed infection types and vaccines renders the inventions encompassed by Groups I-II distinct because they are materially different. This difference in material renders the processes encompassed by Groups I-II further distinct from one another. See MPEP § 806.05(j). Furthermore, these distinct inventions do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

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- 4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
 - (a) the inventions have acquired a separate status in the art in view of their different classification;
 - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
 - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
 - (d) the prior art applicable to one invention would not likely be applicable to another invention;
 - (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election

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shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 5. This application contains claims directed to the following patentably distinct species: SEQ ID NO: 1-25, SEQ ID NO: 29-43; oligonucleotides encompassed by claims 7-11, 13-14, 43-47 and 49-50, wherein the oligonucleotides are not encompassed by SEQ ID NO: 1-25 and 29-43. Applicant is required to elect an oligonucleotide, a species, for examination.
- 6. The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species, such the structures that flanks the immunostimulatory motif. In addition, these species are not obvious variants of each other based on the current record.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-6, 18-19, 37-42 and 52-59 are generic to the listed species.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are

added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emily Le whose telephone number is (571) 272 0903. The examiner can normally be reached on Monday - Friday, 8 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce R. Campell can be reached on (571) 272-0974. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Emily M. Le/ Patent Examiner Art Unit 1648

/E.Le/